

# UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/785,456	02/20/2001	Hwan-Seong Yu	8733.394.00	5029
30827 7	590 08/07/2003			
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW			EXAMINER	
WASHINGTO	•		CHOWDHURY, TARIFUR RASHID	
			ART UNIT	PAPER NUMBER
			2871	-

DATE MAILED: 08/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)
		•
Office Action Summary	09/785,456 Examiner	YU, HWAN-SEONG
•		Art Unit
The MAILING DATE of this communication app	Tarifur R Chowdhury	2871
· one for Rophy		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period with the set or extended period for reply will, by statute, and any reply received by the Office later than three months after the mailing of earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be till within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from	mely filed  /s will be considered timely. It he mailing date of this communication.
1) Responsive to communication(s) filed on 17 Ju		
0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
7— 20)EJ 11118	s action is non-final.	
3) Since this application is in condition for allowar closed in accordance with the practice under E Disposition of Claims	nce except for formal matters, parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 153 O.G. 213.
4)⊠ Claim(s) 1-12 and 16-26 is/are pending in the a	pplication.	
4a) Of the above claim(s) is/are withdraw		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-12,16-26</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers		
9) The specification is objected to by the Examiner.		
10)☐ The drawing(s) filed on is/are: a)☐ accepte	ed or b) objected to by the Exar	niner.
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11) I he proposed drawing correction filed on is	s: a)∏ approved b)∏ disappro	ved by the Examiner.
If approved, corrected drawings are required in reply	to this Office action.	
12) The oath or declaration is objected to by the Exan	niner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)	-(d) or (f).
a)☐ All b)☐ Some * c)☐ None of:		•
<ol> <li>Certified copies of the priority documents h</li> </ol>		
2. Certified copies of the priority documents h	ave been received in Applicatio	n No
Copies of the certified copies of the priority     application from the International Burea     * See the attached detailed Office action for a list of	documents have been received	f in this National Stage
14) Acknowledgment is made of a claim for domestic p	riority under 35 U.S.C. & 119(e)	(to a provinional application)
a) ☐ The translation of the foreign language provis 15)☐ Acknowledgment is made of a claim for domestic p	ional application has been roce	ived
Notice of References Cited (PTO-892)	🗖	
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)   Notice of lefe	PTO-413) Paper No(s) tent Application (PTO-152)
Patent and Trademark Office  O-326 (Rev. 04-01) Office Action	0	ort of Danse No. 40

Art Unit: 2871

#### **DETAILED ACTION**

# Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/17/03 has been entered.

#### Status of the claims

2. Currently, claims 1-12 and 16-26 are pending.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-12 and 16-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art (AAPA) in view of Noguchi, USPAT 5,361,150 (provided by the applicant).
- 5. The AAPA described in the present application discloses in pages 3-4 and shows in Fig. 2, a color filter substrate for use in a liquid crystal display device comprising:
  - a substrate;

Art Unit: 2871

- a black matrix (33) having a pattern on the substrate;
- red (R), green (G) and blue (B) color filters (35) in red, green and blue color filter patterns of the black matrix respectively and wherein the red, green and blue color filters constitute a display area where color images are shown; and
  - an alignment key (37) at the periphery of the substrate.

The AAPA differs from the claimed invention because it does not disclose the identification mark being formed in a non-display area at a periphery and near a corner of the substrate.

Noguchi discloses a substrate wherein an identification mark is formed in a non display area at a periphery and near a corner of the substrate (Figs., 4, 5, 8). Noguchi further discloses that by providing the identification mark on a blank portion of the display pattern unit excepting display and terminal areas thereof, it is possible to obtain a display device in which an identification mark can be readily viewed from the surface thereof so that control of product such as process control and reliability control can be sufficiently achieved (col. 2, lines 51-68).

Noguchi is evidence that ordinary workers in the art would find a reason, suggestion or motivation to form an identification mark in a non-display area at a periphery and near a corner of the substrate.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to modify the substrate of the AAPA by forming an identification mark a non-display area at a periphery and near a corner of the substrate, so that the identification mark can be readily viewed from the surface and thus control of

Art Unit: 2871

product such as process control and reliability control is sufficiently achieved, as per the teachings of Noguchi.

The AAPA described in page 3, lines 6-9 also discose the use of a transparent conductive layer over the color filter.

Further, since the method of manufacturing the color filter substrate is merely a list of forming each component and each component must be formed to make the device, the method of manufacturing would be inherent to the device.

Accordingly, claims 1, 10, 11, 16, 17 and 26 would have been obvious.

As to claims 2-4 and 18-20, the AAPA described in the present application discloses in page 4, lines 5-11 that the black matrix (33) includes chrome or chrome and chrome oxide double layer or resin having carbon.

As to claims 5-7 and 21-23, Noguchi shows in Fig. 5 that the identification mark includes a sign and a character wherein the character includes an alphabet and a number.

As to claims 8, 9, 24 and 25, using the identification mark for storing information such as manufacturer, color filter type, fabrication method and black matrix type is within the level of ordinary skill in the art and thus would have been obvious to optimize the usage of the identification mark.

As to claim 12, using an overcoat between the transparent conductive layer and the color filter is common and known for several reasons such as to protect the color filter from any contamination and thus would have been obvious.

Art Unit: 2871

ċ

### Response to Arguments

6. Applicant's arguments with respect to claims 1-12 and 16-26 have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (703) 305-3492. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7005 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

T. Chowdhury

**Primary Examiner** 

Technology Center 2800

TRC

August 5, 2003